

**What is claimed is:**

1. A cooling mechanism for a motorized roller including a motor and a reducer which are disposed inside a roller body, a rotation of the motor being reduced by the reducer and

5 transmitted to the roller body, and a reaction force to the driving force of the roller body being able to be received, via casings that house the motor and the reducer, by an external member that fixes the casings so that rotations of the casings are prevented, wherein

10 an air passage for guiding air in an axial direction from one end of the reducer to the other end is formed in an outer peripheral surface of the casing for the reducer.

2. The cooling mechanism for a motorized roller according to claim 1, wherein

15 the casing for the motor is positioned coaxially with the casing of the reducer, and

an air passage is formed in an outer peripheral surface of the motor casing so as to position the air passage of the casing of the motor substantially in-line with the air passage  
20 formed in the outer peripheral surface of the casing of the reducer and guide air in the axial direction from one end of the motor to the other end.

3. The cooling mechanism for a motorized roller according to claim 1 or 2, wherein

25 an air passage for guiding air in the axial direction

from one end of the roller body to the other end is formed in an inner peripheral surface of the roller body.

4. The cooling mechanism for a motorized roller according to claim 3, wherein

5 the air passage formed in the inner peripheral surface of the roller body is obliquely formed relative to the axial direction.

5. A cooling mechanism for a motorized roller including a motor and a reducer which are disposed inside a roller body, a  
10 rotation of the motor being reduced by the reducer and transmitted to the roller body, and a reaction force to the driving force of the roller body being able to be received, via casings that house the motor and the reducer, by an external member that fixes the casings so that rotations of  
15 the casings are prevented, wherein

a rotor is provided inside the roller body on an opposite side of the reducer from the motor, and is connected to an output rotational shaft of the reducer so that the shaft can transmit power, and

20 a ventilation passage is formed in the rotor in an axial direction.

6. The cooling mechanism for a motorized roller according to claim 5, wherein

the ventilation passage is obliquely formed relative to  
25 the axial direction of the rotor.

7. The cooling mechanism for a motorized roller according to any one of claims 1 to 6, wherein

mounting flanges that have a substantially circular plate shape and are capable of relative rotation with respect to the roller body are provided at both end sections of the roller body, and

ventilation passages are formed in the mounting flanges in the axial direction.